1. (Currently Amended) A method of forwarding packet calls in mobile

communication system, comprising:

determining whether a called subscriber is a subscriber of a call-forwarding service

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and has set up a call-forwarding unconditional function in response to a packet call set-up

request; and

setting up a packet call directed to a first IP address of the called subscriber for

forwarding to a second predetermined IP address based on a result of said determining, wherein

the second predetermined IP address is previously designated by the called subscriber for storage

in at least one network storage element and wherein the packet call is set up based on the second

predetermined IP address when the called subscriber is determined to have subscribed to the

call-forwarding unconditional function.

2. (Previously Presented) The method of claim 1, further comprising:

registering the call forwarding service by adding a parameter having forwarding

information including the second IP address to packet service subscriber data transmitted from

an HLR to an SGSN when the HLR changes the subscriber information stored in a database of

the SGSN.

3. (Previously Presented) The method of claim 1, wherein the determining is

performed at an HLR that received a called subscriber routing information request.

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- 4. (Previously Presented) The method of claim 1, further comprising when the called subscriber is determined to have subscribed to the call forwarding service and set up the callforwarding unconditional function: transmitting from an HLR to a Gateway General Packet Radio Service (GPRS) Service Node (GGSN) first routing information for setting up the packet call directed to the first IP address of the called subscriber and forwarded to the second IP address.
- 5. (Original) The method of claim 4, wherein the first routing information includes forwarding information, in a case where the called subscriber subscribes to the call forwarding service.

## 6-7. (Canceled)

- 8. (Previously Presented) The method of claim 2, wherein the second IP address includes at least one of a previously designated URL address, a certain server address and another mobile station address.
- 9. (Previously Presented) The method of claim 5, wherein the second IP address includes at least one of a previously designated URL address, a certain server address, and another mobile station address.

10. (Currently Amended) A The method of claim 1 of forwarding packet calls in mobile communication system, comprising:

determining whether a called subscriber is a subscriber of a call-forwarding service and has set up a call-forwarding unconditional function in response to a packet call set-up request; and

setting up a packet call directed to a first IP address of the called subscriber for forwarding to a second IP address based on a result of said determining, wherein the setting up comprises:

transmitting first routing information including forwarding information from a first HLR to a GGSN, said forwarding information including the second IP address;

checking, in the GGSN, whether the first routing information includes said forwarding information;

determining a subscriber identification number corresponding to the second IP address included in said forwarding information;

determining a second HLR for setting up the packet call to be forwarded to another mobile station corresponding to the subscriber identification number; and

receiving from the second HLR an address of an SGSN of said another mobile station corresponding to the subscriber identification number; and

setting up the packet call, forwarded to said another mobile station registered by the called subscriber, according to second routing information including the SGSN address received from the second HLR.

11. (Original) The method of claim 1, wherein the setting up comprises:

transmitting first routing information including forwarding information from a

first HLR to a GGSN; and

checking forwarding information from the received first routing information, wherein in a case where setting up the packet call forwarded to another mobile station is impossible according to a result of said checking, setting up a forwarded packet call by routing the packet call using an internet network according to the received forwarding information.

12. (Currently Amended) A method of forwarding packet calls in mobile communication system, comprising:

receiving routing information of a called subscriber according to a packet call setup request; and

paging a mobile handset of the called subscriber[[;]], wherein when no response is received from said paging, determining whether the called subscriber subscribes to a call forwarding service and then setting up a packet call directed to a first IP address of the called subscriber and forwarded to a second <u>predetermined</u> IP address,

wherein the second predetermined IP address is previously designated by the called subscriber for storage in at least one network storage element and wherein the packet call is set up based on the second predetermined IP address.

13. (Previously Presented) The method of claim 12, further comprising:

registering the call forwarding service by adding parameter having forwarding information including the second IP address to packet service subscriber data transmitted from an SGSN to a GGSN when subscriber information stored in a database of SGSN is changed by the SGSN.

- 14. (Original) The method of claim 12, wherein the determining step is performed at an SGSN which pages a mobile handset of the called subscriber.
- 15. (Previously Presented) The method of claim 12, wherein when the called subscriber subscribes to the call forwarding service, an SGSN transmits to a GGSN information including forwarding information for setting up a packet call directed to the first IP address of the called subscriber and forwarded to the second IP address.

## 16. (Canceled)

- 17. (Previously Presented) The method of claim 15, wherein the second IP address includes at least one of a previously designated URL address, a certain server address, and another mobile station address.
- 18. (Original) The method of claim 15, wherein the information including forwarding information comprises information indicating that there is no response from the called subscriber, when the called subscriber is a subscriber of the call forwarding service.
- 19. (Previously Presented) The method of claim 12, wherein the setting up comprises: transmitting information including forwarding information from an SGSN to a GGSN according to a result of the determination; and

setting up a packet call forwarded to another mobile station by checking forwarding information from the received information including forwarding information.

20. (Previously Presented) The method of claim 12, wherein the setting up comprises: transmitting the second IP address from an SGSN to a GGSN according to a result of the determining; and

checking forwarding information from the received information; wherein in a case where setting up a packet call forwarded to another mobile station is impossible as determined

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from a result of the checking, setting up the forwarded packet call by routing the packet call using an internet network according to the received second IP address.

21. (Currently Amended) A method for processing calls in a mobile communications system, comprising:

receiving a call directed to a first IP address of a mobile terminal; and forwarding the call to a forwarding address of a subscriber of the mobile terminal, wherein the forwarding address is a second <u>predetermined</u> IP address different from the first IP address and wherein the second <u>predetermined</u> IP address corresponds to a destination different from the mobile terminal of the subscriber, and wherein the second <u>predetermined</u> IP address is <u>previously designated</u> by the subscriber for storage in at least one network storage element.

- 22. (Canceled)
- 23. (Original) The method of claim 21, wherein the forwarding address is one of a predetermined URL address, a predetermined server address, or an address corresponding to another mobile terminal.
- 24. (Previously Presented) The method of claim 21, wherein the forwarding is performed unconditionally.

- 25. (Previously Presented) The method of claim 21, further comprising:

  sending a paging signal the mobile subscriber terminal,

  wherein the forwarding is performed only when no response is received from the paging signal.
- 26. (Original) The method of claim 21, further comprising:

  determining whether the mobile terminal subscriber is a subscriber of a callforwarding service, wherein the forwarding step is performed based on a result of the
  determining step.
  - 27. (Original) The method of claim 26, further comprising:

    determining a type of call-forwarding service of the mobile terminal subscriber; and
    forwarding the call based on the type of call-forwarding service.
- 28. (Original) The method of claim 27, wherein the type of call-forwarding service is one where calls are unconditionally forwarded to the forwarding address.
- 29. (Original) The method of claim 28, wherein the type of call-forwarding service is one where calls are forwarded to the forwarding address after no response has been received from a paging signal for a predetermined period of time.

30. (Currently Amended) A system for managing calls in a mobile communications system, comprising:

a receiving circuit which receives information indicating that a call directed to a first IP address of a mobile terminal has been received; and

a control system which forwards the call to a forwarding address of a subscriber of the mobile terminal, wherein the forwarding address is a second <u>predetermined</u> IP address different from the first IP address and wherein the second IP address corresponds to a destination different from the mobile terminal of the subscriber, and wherein the second <u>predetermined IP address is previously designated by the subscriber of the mobile terminal for storage in at least one network storage element</u>.

## 31. (Canceled)

- 32. (Original) The system of claim 30, wherein the forwarding address is one of a predetermined URL address, a predetermined server address, or an address corresponding to another mobile terminal.
- 33. (Previously Presented) The system of claim 30, wherein the control system forwards the call unconditionally.

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- 34. (Previously Presented) The system of claim 30, further comprising:

  a paging circuit which sends a paging signal the mobile subscriber terminal,

  wherein the control system forwards the call to the forwarding address only when no
  response is received from the paging signal.
- 35. (Original) The system of claim 30, wherein the control system determines whether the mobile terminal subscriber is a subscriber of a call-forwarding service and forwards the call based on a result of the determination.
- 36. (Original) The system of claim 35, wherein the control system determines a type of call-forwarding service of the mobile terminal subscriber and forwards the call based on the type of call-forwarding service.
- 37. (Original) The system of claim 36, wherein the type of call-forwarding service is one where calls are unconditionally forwarded to the forwarding address.
- 38. (Original) The system of claim 37, wherein the type of call-forwarding service is one where calls are forwarded to the forwarding address after no response has been received from a paging signal for a predetermined period of time.